## IN THE CLAIMS

Claims 1-20 were previously cancelled. Claims 21 and 35-37 are currently cancelled. Claims 22, 23 and 33 are currently amended. Claims 24-32 and 34 are carried forward, all as follows.

Claims 1-21 (Cancelled)

## 22. (Currently Amended) A product folding apparatus comprising:

a transport track adapted to transport a product and having a transport track drive mechanism and being usable to move the product along said transport track in a product transport direction;

a longitudinal folding apparatus connected to said transport track and adapted to receive the product from said transport track and to fold said product longitudinally in said product transport direction;

a <u>vertically reciprocable</u> folding blade <u>positioned</u> in said longitudinal folding apparatus <u>and being aligned in said product transport direction;</u>

a folding table supporting said folding blade for said vertically reciprocable movement of said folding blade with respect to said folding table;

a folding blade drive motor usable to <u>accomplish said vertically reciprocable</u>

<u>movement of raise and lower</u> said folding blade with respect to said folding table through a folding blade drive <u>mechanism gear and</u>, <u>said folding blade drive motor</u> being <u>controlled</u>

<u>independently independent</u> of said transport track drive mechanism;

a folding blade drive motor control device <u>adapted to provide said independent</u> control of said folding blade drive motor; and

a product sensor <u>arranged adjacent-associated with said folding table transport</u>

track and usable to detect a product phase relationship for determining a product passage time, said product sensor controlling said folding blade drive motor, through said folding blade drive motor control device in response to said detected product phase relationship, to vertically reciprocate said folding blade to longitudinally fold the product in said product transport direction.

- 23. (Currently Amended) The product folding apparatus of claim 22 further including a folding blade support lever pivotably attached to said folding table and supporting said folding blade for said vertically reciprocable movement with respect to said folding table.
- 24. (Previously Presented) The product folding apparatus of claim 22 further including a movable buffer in said longitudinal folding apparatus and usable to slow down a product entering said longitudinal folding apparatus along a product travel path at a product entry speed.
- 25. (Previously Presented) The product folding apparatus of claim 24 further including means moving said buffer along said product travel path at a buffer speed less than said product entry speed.

- 26. (Previously Presented) The product folding apparatus of claim 24 further including a buffer drive mechanism which is independent of said transport drive mechanism.
- 27. (Previously Presented) The product folding apparatus of claim 26 wherein said product sensor controls said buffer drive mechanism.
- 28. (Previously Presented) The product folding apparatus of claim 24 wherein said movable buffer is an endless belt and further including a rotatable body supporting said endless belt, said endless belt extending along said product travel path.
- 29. (Previously Presented) The product folding apparatus of claim 24 wherein said movable buffer is a moving endless belt having a section extending along said product travel path.
- 30. (Previously Presented) The product folding apparatus of claim 22 further including a shunt arranged before, in a direction of product travel, said longitudinal folding apparatus and usable to selectively supply products to said longitudinal folding apparatus.
- 31. (Previously Presented) The product folding apparatus of claim 30 further including a shunt drive mechanism and a shunt drive mechanism control device and further including a shunt sensor located before said shunt and usable to actuate said shunt drive mechanism control device.

- 32. (Previously Presented) The product folding apparatus of claim 31 wherein said shunt drive mechanism control device synchronizes a shunt operating position with a detected product phase relationship using said shunt sensor.
- 33. (Currently Amended) The product folding apparatus of claim 22 wherein said product sensor is usable to synchronize <u>said vertically reciprocable</u> movement of said folding blade with said product phase <u>relationship-relation</u>.
- 34. (Previously Presented) The product folding apparatus of claim 24 wherein said product sensor is usable to synchronize said movement of said buffer using said product phase relationship.

Claims 35-37 (Cancelled)